

EMBARK 90 SC

MATERIAL SAFETY DATA SHEET

SECTION-1 PRODUCT / COMPANY IDENTIFICATION

Product Name EMBARK 90 SC

Flonicamid 70.0 g/L + Emamectin Benzoate 20.0 g/L SC **Active Ingredient**

Chemical family Flonicamid: Pyridine carboxamide :

Emamectin Benzoate: Avermectin

CAS No Flonicamid: 158062-67-0

Emamectin Benzoate: 155569-91-8

Type of Formulation Suspension concentrate (SC)

Indented Use Commercial Insecticide

SINERIA HOLLAND BV. Company/Supplier

details Randwycksingel 20-A015 6229 EE, Maastricht.

The Netherlands

www.sineria.com

SECTION-2 COMPOSITION/INFORMATION ON INGREDIENTS

Active Ingredient CAS No QTY (g/L) 70.0 g/L Flonicamid 158062-67-0 **Emamectin Benzoate** 155569-91-8 20.0 g/L

SECTION-3 HAZARD IDENTIFICATION

Pictograms







H-Statements

H302 : Harmful if swallowed

: May be fatal if swallowed and enters airways H304

H315 : Causes skin irritation : Causes eye irritation H320 H332 : Harmful if inhaled

: May damage fertility or the unborn child H360



H410 :	Updated in: May, 2020 Very toxic to aquatic life with long-lasting effects
Precautionary Statements	
P102 :	Keep out of reach of children.
P210 :	Keep away from heat, sparks, open flames and hot surfaces-No Smoking
P260 :	Do not breathe mist, vapors or spray
P262 :	Do not get in eyes, on skin, or on clothing.
P264 :	Wash contacted areas thoroughly after handling.
P270 :	Do not eat, drink or smoke when using this product.
P273 :	Avoid release to the environment.
P280 :	Wear protective gloves, protective clothing and eye and/or face

protection.

SECTION-4		FIRST AID MEASURES	
General Advice		In case of accident or unwellness, seek medical advice immediately	
		(show directions for use or safety data sheet if possible).	
		First aider: Pay attention to self-protection!.	
If ingestion	:	Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If	
		symptoms persist, call a physician.	
If inhaled	:	If product is inhaled, remove person to fresh air. If not breathing, give	
		artificial respiration. Seek medical attention if breathing problems	
		develop.	
If on skin	:	Remove contaminated clothing. Wash skin and hair thoroughly; do	
		two soap and water washings.	
If in eyes	:	Hold eye open and rinse slowly and gently with water for 15-20	
		minutes. Remove contact lenses, if present, after first 5 minutes,	
		then continue rinsing eye. Call a poison control center or doctor for	
		treatment advice.	
Note to physicians	:	Treat symptomatically	



SECTION-5

FIRE FIGHTENING MEASURES

Use extinguishing measures that are appropriate to local circumstances

Updated in: May, 2020

media and the surrounding environment

Specific hazards : No specific hazard known.

arising from the

Suitable extinguishing

chemical

Firefighting Instructions : Fire fighters should wear full protective gear, including self-contained

breathing apparatus. Keep unnecessary people away. If it can be

done safely, remove intact containers from the fire.

In the event of fire, wear self-contained breathing apparatus.

In the event of fire and/or explosion do not breathe fumes.

SECTION-6

ACCIDENTAL RELEASE MEASURES

Personal precautions,
protective equipment
and emergency
procedures

In case of spillage it is important to take all steps necessary to: Avoid contact with the spilled material or contaminated surfaces.

Extinguish or remove any sources of ignition. When dealing with

spills do not eat, drink or smoke and wear protective clothing and equipment. Keep people and animals away. Prevent spilled material

from entering drains or watercourses.

Environmental

precautions

Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities.

Reposition any leaking containers so as to minimize leakage. Dam and absorb spill with an absorbent material (eg. sand or soil). Shovel the absorbed spill into drums

Methods and materials for containment and cleaning up

Contain spill and absorb with earth, sand, clay, or other absorbent material. Collect and store in properly labelled, sealed drums for safe disposal. Deal with all spillages immediately). Take up mechanically, placing in appropriate containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.



SECTION-7 HANDLING AND STORAGE

Precautions for : Safe work practices are recommended. Avoid contact with eyes and

safe handling skin.

When opening the container and preparing spray wear appropriate

PPE (refer Section 8).

Do not spray under high wind conditions.

Conditions for : Keep out of reach of children, unauthorized persons and animals.

safe storage Store in tightly sealed original containers in a dry secure place away

from fertilizers, feed and food.

Incompatibilities : Store out of direct sunlight and extreme temperature.

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SECTION-8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering controls : Use only with adequate ventilation. Keep container tightly closed. Do

not generate dust.

Personal protective equipment (PPE)

Respiratory protection : Use NIOSH/MSHA approved respirator appropriate for exposure of

concern.

Hand protection : Protective gloves

Eye protection : Wear safety glasses with side shields. Additionally, wear a face shield

where the possibility exists for face contact due to splashing, spraying

or airborne contact with this material.

Skin and body: Where there is potential for skin contact have available and wear as

protection appropriate impervious gloves, apron, pants, and jacket.

SECTION-9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Off-white Suspension Liquid

pH : 3-6

Explosive Properties : Non-Explosive
Oxidizing properties : Not oxidizing

Stability : Stable under normal temperature and pressure



SECTION-10 STABILITY & REACTIVITY

Possibility of Hazardous : No dangerous reaction known under conditions of normal use and

Reactions storage conditions.

Chemical Stability : This product is chemically stable under recommended conditions of

storage, use and temperature.

Conditions to Avoid : Protect this product from light. Store in the closed original container

in a dry, cool, well ventilated area out of direct sunlight.

Incompatible materials : Strong acids, strong bases, strong oxidizing agents.

Polymerization : This product will not undergo polymerization reactions.

SECTION-11

TOXICOLOGICAL INFORMATION

Based A.I. Information

Flonicamid

Acute oral LD₅₀, mg/kg rats : 884 (male), 1770 (female)

Acute dermal LD₅₀, mg/kg rabbits : >5000

Acute Inhalation LD₅₀, mg/kg rat : > 4.9 (4h)

Skin Irritation (rabbits) : Not an irritant

Eye Irritation (rabbits) : Not an Irritant

Skin Sensitization (guinea pigs) : Not a sensitizer

Emamectin Benzoate

Acute oral LD₅₀, mg/kg rats : 56-63

Acute dermal LD₅₀, mg/kg rabbits : >2000

Acute Inhalation LD₅₀, mg/kg rat : > 0.663 (Female, 4h); > 1.05 (Male, 4h)

Skin Irritation (rabbits) : Not an irritant

Eye Irritation (rabbits) : Irritant

Skin Sensitization (guinea pigs) : Not a sensitizer



SECTION-12

ECO-TOXICOLOGICAL INFORMATION

Based A.I Information

Flonicamid

Acute oral LD₅₀ for quail : >2000 mg/Kg

Rainbow trout : >100mg/L

Carp LC₅₀, (96h) : >100 mg/L

Daphnia EC_{50} (48h) : > 100 mg/L

Algae EC_{50} (96h) P. subcapitata : > 100 mg/L

Bees (LD₅₀, μg/bee) : >100 (Contact); >61 (contact)

Emamectin Benzoate

Acute oral LD₅₀ for Mallard duck : >76 mg/kg

Acute oral LD₅₀ for Bobwhite quail : >264 mg/Kg

Rainbow trout LC₅₀, (96h) : >0.174 mg/L

Daphnia LC₅₀ (48h) : >0.00099 mg/L

Bees (LD_{50} , $\mu g/bee$) : Toxic

Worms (LC₅₀, for earthworm) : >1000mg/Kg soil

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SECTION-13

DISPOSAL CONSIDERATIONS

Waste from residues/unused

products

Contaminated packaging

Disposal should be in accordance with applicable regional,

national and local laws and regulations.

Improper disposal or reuse of this container may be dangerous

and illegal.

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SECTION-14 TRANSPORT INFORMATION

General Transport Information : It is considered good practice not to transport agricultural

chemical products with food, food related materials and

animal feed products.

Proper shipping Name : Environmentally hazardous substance, liquid, N.O.S

[Land/Air/Sea] (Contains Flonicamid and Emamectin Benzoate)

UN Number : 3082

Class : 9

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SECTION-15

REGULATORY INFORMATION

GHS07: Harmful

GHS09: Environmental hazard

GHS08: Health hazard

H-Statements

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Precautionary Statements

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		protection.



SECTION-16

OTHER INFORMATION

The information contained in the Material Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is the intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for with other materials or in processes other than those specifically described herein.

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